

ASC-X Series DC Current Transducer

- Split core CT for easy Installation
- Loop powered, reducing wiring
- SIL 2 rated (IEC61508) as 1oo1 architecture (HFT:0)
- 3 year warranty as standard
- CE compliant
- Connect directly to PLC

APPLICATION

- Motor / Heating element current monitoring.
- Current signal conditioning (to 4-20mA).

TECHNICAL SPECIFICATION

INPUT

Current can be specified in the range of:
 0 - 200A, 0 - 300A, 0 - 400A, 0 – 600A, 0 – 800A,
 0 – 1000A , 0-2000A
 (MAX 40mm Cable diameter)

OUTPUT

4 – 20mA DC Sinking current. 20mA max
 Output Load: 450R ohms max @ 24Vdc supply.
 Loop voltage 24Vdc \pm 5%

\pm 4Vdc (Load 10K ohms minimum).
 Supply : \pm 4Vdc

Other ranges available on request.

PERFORMANCE

Linearity: $< \pm 1\%$
 Accuracy: $< \pm 1\%$
 Consumption: 35mA + I out
 Freq Bandwidth: DC to 20kHz

CONTROLS

15 turn potentiometers for output calibration.

Zero: $\pm 25\%$
 Span: $\pm 25\%$

PROTECTION

Isolation 5000V RMS. Input / Output / Case
 Input over range up to 200% continuous.
 Enclosure: ABS (UL 94V-0) / Encapsulation

ENVIRONMENTAL CONDITION

Storage temperature: -40 to +100 °C
 Operating Ambient: -25 to +85 °C
 Relative Humidity: 5 to 95% RH (Non-condensing)
 Temp Coefficient: $< 0.03\% / ^\circ\text{C}$
 IP Rating: IP60

MOUNTING

Mounting: Surface
 Weight: 320g
 Installation: CAT II

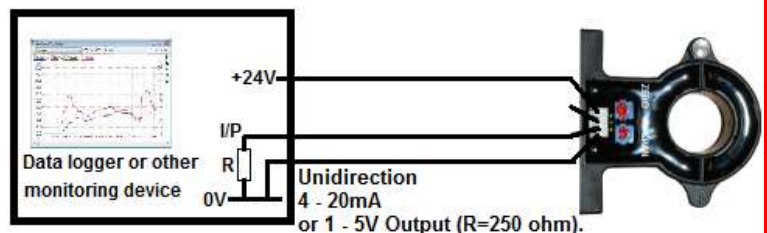
Additional options: IP65 sealing available on request
 (with side integrated cable)



WIRING

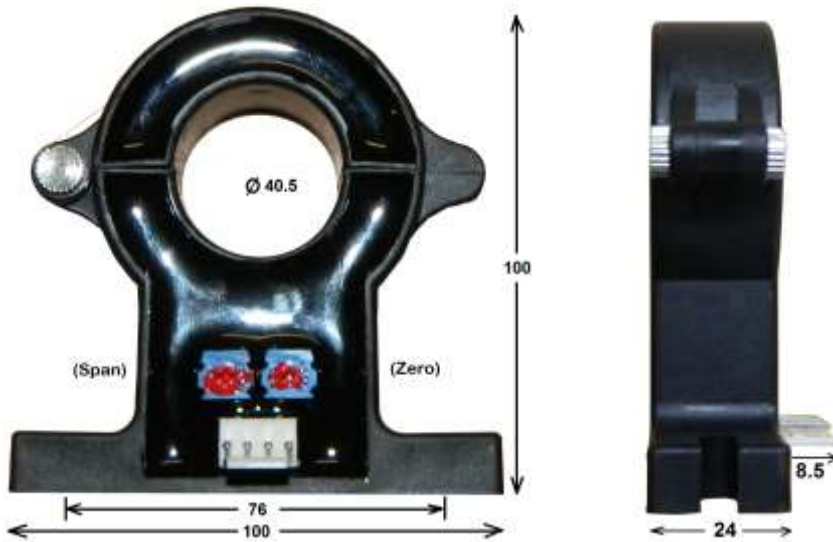


4 way Molex connector / 1 Metre Multi core sleeved cable



ASC-X Series DC Transducer

DIMENSIONS (mm)



INSTALLATION

To avoid damage to the case, input cable should be formed to shape and supported.

1. Remove screw to release split-core



2. Place the cable



3. Screw the split-core back into closed position



4. Finish



SAFETY NOTE:

Although the voltage(s) directly connected to this instrument and its internal voltages are low, the cable running through the split core may carry dangerous high voltage. For this reason, this product should be installed by a competent person. If the unit fails to operate correctly, then first check if the wiring is correct. The unit should not be taken apart to gain access to internal circuitry for any reason whilst it has live cable through the split core.